

**INTEGRATED PAPER COMPRISING FIBRILLATED FIBERS AND
ACTIVE AGENTS IMMOBILIZED THEREIN**



Abstract

An integrated paper having capabilities and functionalities provided by both the fiber and the active agent ingredients, and a method of immobilizing the active agents within the integrated paper. A tight pore structure with a mean pore diameter of less than about 2 microns provides short diffusion distances from a fluid to the surface of the paper ingredients by adsorption or diffusive interception, making it an excellent medium for fluid filtration. A microbiological interception enhancing agent may be added. The integrated paper may be formed using wet laid paper-making processes. Devices utilizing the integrated paper are used in fluid filtration.

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